TRANSGENIC ANIMALS AS URINARY BIOREACTORS FOR THE PRODUCTION OF POLYPEPTIDE IN THE URINE, RECOMBINANT DNA CONSTRUCT FOR KIDNEY-SPECIFIC EXPRESSION, AND METHOD OF USING SAME

5 CROSS-REFERENCE TO RELATED APPLICATIONS

The present application is a continuation-in-part of Now abandoned,

application 09/438,785, filed November 12, 1999, which claims priority under 35 U.S.C. \$119(e) from U.S. provisional application 60/108,195, filed November 13, 1998, and U.S.

10 provisional application 60/142,925, filed July 9, 1999, the

provisional application 60/142,925, filed July 9, 1999, the entire contents of each of these prior applications are hereby incorporated by reference.

BACKGROUND OF THE INVENTION

Field of the Invention

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The present invention relates to transgenic animals as urinary bioreactors for the expression and production of polypeptides in the urine. The present invention further relates to a recombinant DNA construct for kidney-specific expression of polypeptides in the urine and to a method for producing such polypeptides in the urine.

Description of the Related Art

Significant progress has recently been made in using transgenic animals as bioreactors to produce large quantity and high quality pharmaceuticals. The overall strategy entails the use of tissue-specific promoters to drive the expression of genes encoding medically important molecules. When those molecules are expressed in the target tissue of